



## USED RAIL Specifications

### Specifications R50 & R65 ISRI CODES 27-29

The chemical composition is the standard for R50 & R65 rails, original weight 50 pounds per yard or heavier, 6 meters long and over. Material to be suitable for re-rolling into bars and shapes. Free from bent and twisted Rails, frog, switch and guard rails, rails with split heads and broken flanges. Continuous welded rail may be included provided no weld is over 9 inches from the end of a piece of rail. Free from fluff, non-ferrous inclusions excessive rust and other impurities. Free from war and explosives, shells, cartridges, other arms and ammunitions used or otherwise and any closed containers. Free from any radioactive materials, any harmful chemicals, substances and coatings any organic waste, any other harmful substances. Dirt, dust, rust, fluff and other impurities not allowed over 5%.

#### ISRI-CODES:

**(27) Rail, steel No.1** Standard section T rails, original weight 50 pounds per yard or heavier, 10 feet long and over. Suitable for re-rolling into bars and shapes. Free from bent and twisted rails, frog, switch and guard rails or rails with split heads and broken flanges. Continuous welded rail may be included provided no weld is over 9 inches from the end of the piece of rail.

**(28a) Rail, steel No.2** Cropped Rail Ends, standard section, original weight of 50 pounds per yard and over, 18 inches long and under.

**(28b) Rail, steel No.2** Cropped Rail Ends, standard section, original weight of 50 pounds per yard and over, 2 feet long and under.

**(28c) Rail, steel No.2** Cropped Rail Ends, standard section, original weight of 50 pounds per yard and over, 3 feet long and under.

**(29) Rail, steel No.3** Standard section T, girder and/or guard rails, to be free from frog and switch rails not cut apart and contain no manganese, casts, welds or attachments of any kind except angle bars. Free from concrete, dirt and foreign material of any kind.

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### **Nominal Chemical Composition**

Carbon (C)	0.20% to 0.60%
Manganese (Mn)	0.60% to 0.90%
Silicon (Si)	0.15% to 0.35%
Sulphur (S)	0.05% to Maximum
Phosphorous (P)	0.05% to Maximum
Arsenic (Ar)	0.15% to Maximum

### **Nominal Specification for R50 – 51.67 kg/m GOST 7173-75**

Carbon (C)	0.40% to 0.58%
Manganese (Mn)	0.75% to 0.88%
Silicon (Si)	0.13% to 0.28%
Sulphur (S)	0.045% to Maximum
Phosphorous (P)	0.035% to Maximum
Arsenic (Ar)	0.13% to Maximum

### **Nominal Specification for R65 – 64.72 kg/m GOST 8165-75**

Carbon (C)	0.40% to 0.58%
Manganese (Mn)	0.75% to 0.88%
Silicon (Si)	0.13% to 0.28%
Sulphur (S)	0.045% to Maximum
Phosphorous (P)	0.035% to Maximum
Arsenic (Ar)	0.13% to Maximum